



Annual Stormwater Update

November 2021



CLEAN WATER AND CLEAN BEACHES, MADE POSSIBLE BY CLEAN STORMWATER

[Thinkblue.org](https://thinkblue.org)



Agenda



- **Stormwater Department Provides Essential Services**
- **Stormwater works year-round to protect Water Quality and prepare for Floods**
- **Progress continues to be made, but much more to do**



The Stormwater Dept. Provides Essential Services



restoring the
environments



protecting clean,
safe water



using stormwater
as a resource



safeguarding
communities from
flood



encouraging
public partnership



providing
community
benefits



Citywide Coordination Critical for Storm/Flood Preparedness

- 21 storms in FY2021, already 3 in FY2022
- 24/7 operation, stand by supervisors, day and night coverage
- 350 staff across Transportation & Stormwater
- Coordination includes:
 - Engineering & Capital Projects
 - Development Services
 - IT
 - Emergency Services
 - Police
 - Fire-Rescue





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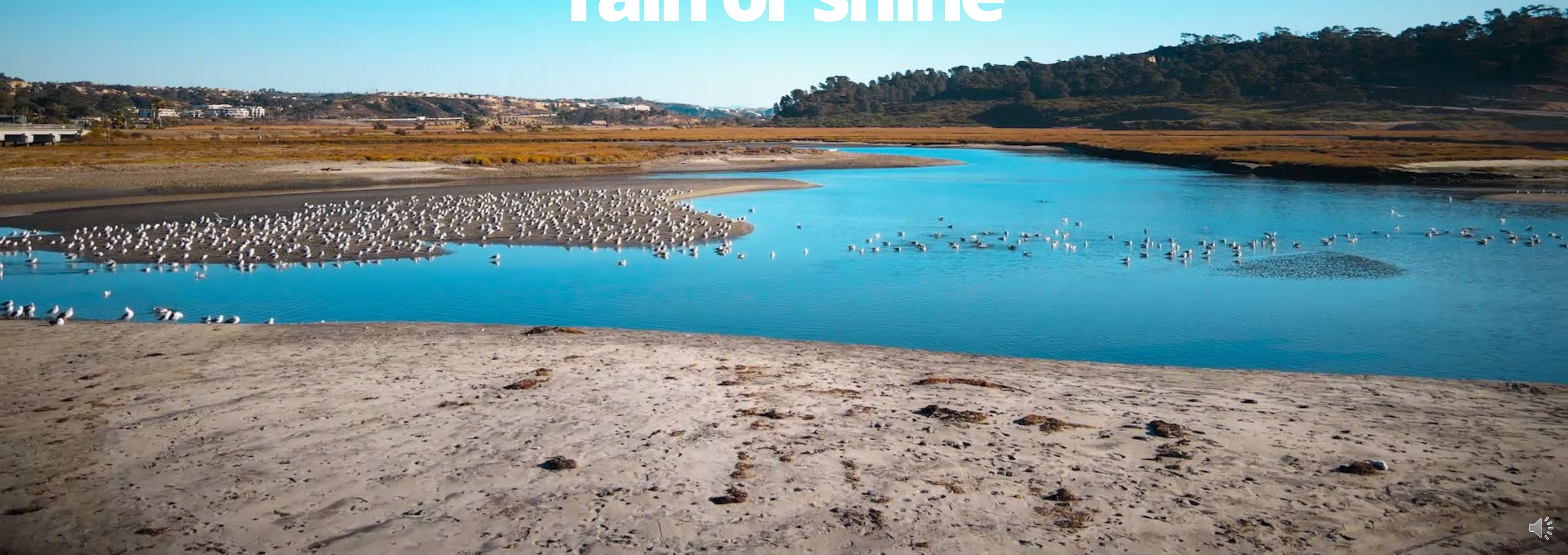


Your Stormwater Department delivers
**clean waterways and
flood-safe communities**



Your Stormwater Department delivers

365 days a year rain or shine



During this storm season
we will work 24/7



During this storm season
we will deliver for you
we will deliver for the environment





Your Pipe Team
Repairs Pipes to
Protect Against
Emergency
Failures
During Rain

pipe failure
by-pass
locations in
March 2020

26

pipe failure
by-pass
locations by
October 2021

1



In FY2021:

79

**spot repairs
completed**

16

**new drain
structures
installed**

5,600

**LINEAR FEET
pipe repaired**


**Your Pipe Team
Repairs Pipes to
Protect Against
Emergency
Failures
During Rain**



Your Pipe Team
Repairs Pipes to
Protect Against
Emergency
Failures
During Rain

79
spot repairs
completed

BUT
>2,000
known pipe
failures remain



Your Pump Station Team
Provides Maintenance and
Repairs of Pump Stations that
Protect Homes and Businesses
from Flooding

**scada
system
upgrades**

**control
panel
upgrades**

**conduit
replacement**

18

**LOCATIONS
in FY2021**





Your Pump Station Team
Provides Maintenance and
Repairs of Pump Stations that
Protect Homes and Businesses
from Flooding

43

**replaced or
rehabbed
parts**

>100

**pump
station wet
wells
cleaned**

In FY2021





Your Pump Station Team
Provides Maintenance and
Repairs of Pump Stations that
Protect Homes and Businesses
from Flooding

43

**replaced or
rehabbed
parts**

BUT

282

**essential
parts require
attention**





**Awarded for Municipal Waterways
Maintenance Plan by American Planning
Association (San Diego Chapter)**

**October 2021: Already completed
emergency maintenance at
Industrial and Chateau channels to
reduce flood risks**

**Your Channels Team
Maintain and Clear
Stormwater Channels to
Convey Floodwaters Away
From Communities**



In FY2021:

4

**channels
funded for
annual
maintenance**

2,500

**TONS
trash and
debris
removed**

equivalent to

179

**large dump
trucks**



**Your Channels Team
Maintain and Clear
Stormwater Channels to
Convey Floodwaters Away
From Communities**



4
channels
funded for
annual
maintenance

BUT
200
channels
require
maintenance

Your Channels Team
Maintain and Clear
Stormwater Channels to
Convey Floodwaters Away
From Communities



Your Street Sweeping Team Removes Pollutants from Streets to Support a Clean and Clear System



**new electric
sweeper
available to
sweep cycle
tracks**

**delivering
"climate
action plan
goals"!**

**BUT
funding
needed to
perform the
work**





Your Street Sweeping Team Removes Pollutants from Streets to Support a Clean and Clear System

91k
MILES
street
swept per
year

700k
CUBIC FEET
debris
removed from
roads

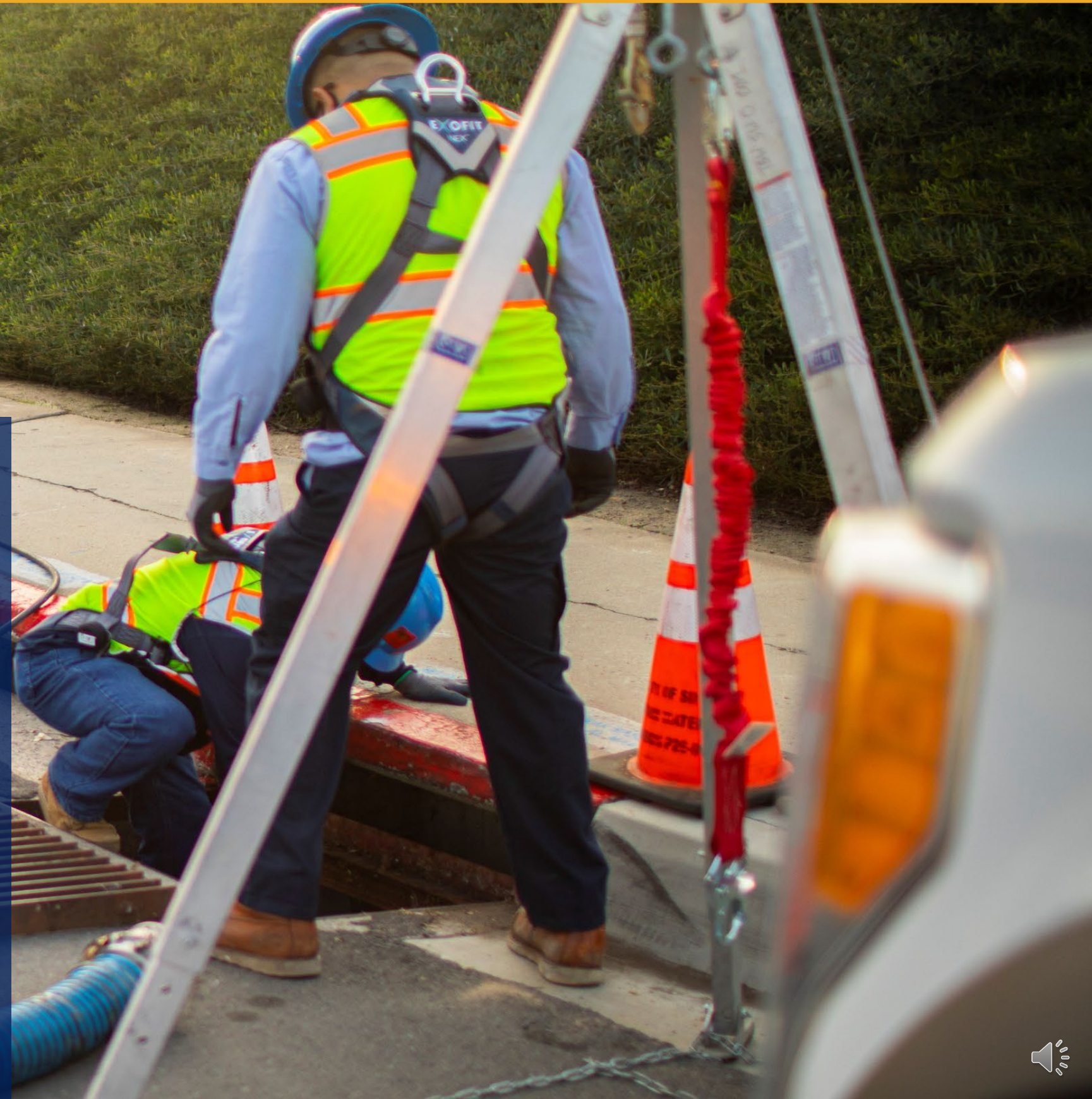
In FY2021:





In FY2021 optimized crew routes for efficiency, cost savings, and reduced fuel consumption

Your Storm Drain Cleaning Team Removes Pollutants from Storm Drains to Support a Clean and Clear System





In FY2021:

>27K

**LINEAR FEET
system cleaned
per year**

>1.3K

**TONS
trash and debris
removed from
storm drains**

**equivalent to
93
large dump
trucks**



**Your Storm Drain Cleaning
Team Removes Pollutants
from Storm Drains to
Support a Clean and Clear
System**

**In FY2021
deploying new
online web portal**



**weekly patrols eliminated
irrigation runoff to
Famosa Slough**



**Your Pollution
Prevention Team
Address Sources of
Contamination and
Protect Water Quality**



A photograph of two women in field gear conducting water quality testing. One woman, wearing a green jacket and blue jeans, is kneeling and using a pipette to transfer liquid from a red bucket into a clear bottle. The other woman, wearing a blue shirt and a high-visibility orange vest, is sitting on the ground and looking at a tablet. They are outdoors near a stream with yellow reeds in the background.

Your Pollution Prevention Team Address Sources of Contamination and Protect Water Quality

2,600

**water quality
response
activities**

125

**bacteria source
locations
eliminated or
reduced**

In FY2021:





Acceleration of Street Sweeping, Storm Drain Cleaning, and Pollution Prevention Efforts are Needed Citywide

99.6%

of City drains to an impaired waterbody





Stormwater Harvesting can Leverage Rainwater and Strengthen Our Local Water Supplies

14

**potential
diversion
locations**

8.6

**MILLION GALLONS
PER DAY
water captured**



**Carrol Canyon Creek Dry
Weather Flow Diversion
project advanced to CIP**



**Stormwater Harvesting
can Leverage Rainwater
and Strengthen Our Local
Water Supplies**





successful September 18th
relaunch event in
coordination with California
Coastal Cleanup Day



Community Outreach &
Engagement Continued
through Think Blue San
Diego Relaunch



award winning programs

efficiency

clean streets

customer service

water quality

Your
Stormwater Department
delivers

reliability

flood resiliency

day and night, rain or shine

clean water



STORM PATROL:

Streets

MISSION BAY GOLF
COURSE EMERGENCY
CHANNEL
MAINTENANCE:

**Parks
& Rec**

Thank you
for partnering with us!

EMERGENCY PIPE REPAIR
PROJECTS:

ECP

SOCIAL MEDIA:

CommsD



STORMWATER HARVESTING:

PUD

DASHBOARDS:

IT

Thank you
for partnering with us!

EQUIPMENT AND
VEHICLES:

FLEET

WIFIA AND SRF WINS:

DoF

HOMELESS ENCAMPMENT
DEBRIS CLEANUP:

ESD





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Multitude Challenges Increasing Needs for Storm Season Preparation

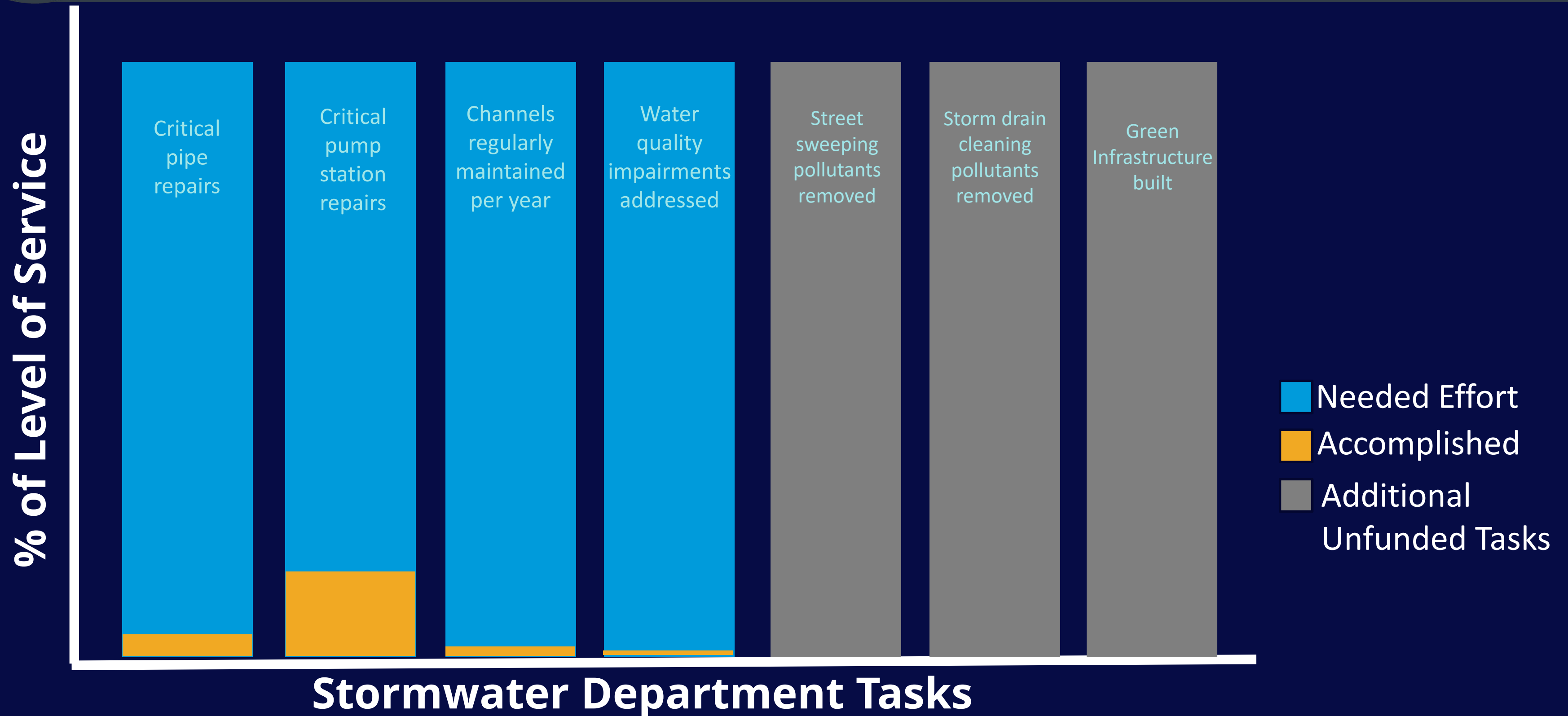
- Aging infrastructure
- More people, more pavement
- Climate change
 - Extreme weather events
 - Drought and flood preparedness



➤ Increasing demands on an outdated, failing stormwater system are being felt Citywide



Stormwater Department has Made Progress BUT Significant Needs are Mounting





Thank you!

